Special Issue

Mathematical Epidemiology and Evolutionary Games

Message from the Guest Editor

During an epidemic outbreak, people change their habits and take personal actions to minimize the impact of the disease on their health and daily routines. These actions are the strategies people use to cope with the epidemic. Researchers have studied not only the analysis of the disease within the population but also how the evolution of individual strategies in a population affects the disease dynamics using models from the fields of mathematical epidemiology and evolutionary games. Therefore, this Special Issue, entitled "Mathematical Epidemiology and Evolutionary Games", will consider novel articles that explore the evolution of population strategies and the dynamics of disease spread. Potential contributions should present mathematical studies on the following topics (among other related topics):

- Epidemic modeling;
- Evolutionary biology;
- Evolutionary epidemiological processes;
- Opinion dynamics;
- Population dynamics;
- Voluntary quarantine, isolation, and the use of masks.
- Vaccination games.

Guest Editor

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Deadline for manuscript submissions

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About the Journal

Message from the Editor-in-Chief

The journal *Mathematics* publishes high-quality, refereed papers that treat both pure and applied mathematics. The journal highlights articles devoted to the mathematical treatment of questions arising in physics, chemistry, biology, statistics, finance, computer science, engineering and sociology, particularly those that stress analytical/algebraic aspects and novel problems and their solutions. One of the missions of the journal is to serve mathematicians and scientists through the prompt publication of significant advances in any branch of science and technology, and to provide a forum for the discussion of new scientific developments.

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manuscripts are peer-reviewed and a first decision is provided to authors approximately 18.4 days after submission; acceptance to publication is undertaken in 2.4 days (median values for papers published in this journal in the first half of 2025).